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(54) Title of invention

Rotary regenerative air preheater

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GB 2 107 445 B



CLAIMS:

1. A rotary regenerative air preheater with capacity for the separate heating of two flows of medium both of which flow to and from the heat exchange matrix through which a heat-emitting medium also flows, the said two  
5 flows being through a hood at each end of the matrix, the hoods and matrix being relatively rotatable about an axis of rotation, the hoods being invariable in their boundaries but being subdivided internally to define distinct respective paths for the said two flows, the  
10 subdivision being adapted to be adjustable to vary the size and/or position of one of the two flows relative to the other, and the hoods.
2. A rotary regenerative air preheater according to Claim 1 wherein there are three flow-compartments within  
15 the hoods, two being respectively occupied by the two flows, the third being connectable to either of the other two.
3. A rotary regenerative air preheater according to Claim 1 wherein walls forming the subdivision are movable  
20 in rotation relative to the radial boundaries of the hoods, about the axis of rotation of the preheater.
4. A rotary regenerative air preheater according to Claim 1 or Claim 3 wherein walls forming the subdivision are or are also radially adjustable.
- 25 5. A rotary regenerative air preheater according to Claim 1 wherein walls forming the subdivision are pivot-

able about an axis lying eccentric of the axis of relative rotation of the preheater whereby to enable division of the hoods either tangentially or radially.

6. Rotary regenerative air preheater substantially as herein described with reference to and as illustrated  
5 in Figs. 1 and 2, Figs. 3 and 4, Figs. 5 and 6, Figs. 7 and 8, Figs. 9 and 10 or Figs. 11 and 12 of the accompanying drawings.

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